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नई विल्ली, शनिवार, जनवरी 29, 1994 (माध 9, 1915)

No. 5]

NEW DELHI, SATURDAY, JANUARY 29, 1994 (MAGHA 9, 1915)

इस माग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके [Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

चेटेन्द्र कार्याताय द्वारा जारी की गई पेटेन्टों और दिजाइनों से सम्अन्धित अधिसूचनाएं और नोटिस ् [Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE PATENTS AND DESIGNS

Calculta the 29th January 1994

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All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office

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1--437 GI/94

पेट दे कार्यालय

एकस्य तथा अभिकल्प

कल्कता, दिएक 29 जनवरं, 1994

पेटाँट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटॉट कार्यालय का प्रधान कार्यालय कलकते में अवधित है तथा बम्बर्क, दिल्ली एवं मदास में इसके शासा कार्यालय है, जिनके प्राविधिक क्षेत्राधिकार जीन के आधार पर निम्न रूप में प्रदिशत हैं:---

पेटॉट कार्यालय शासा, टांडी इस्टोट, तीसरा तल, लोकर गरोल (पीडिस्ट्र), बस्टर्ड-400013 ।

गुजरात महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गौजा, दमन तथा दिप एवं दावरा और नगर हवेली ।
तार पता---''पेटोफिस''

पेटाँट कार्थालय शाखा, एकक सं. 401 से 405, तीसरा तल, नगरपालिका बाजार भवन, स्राप्यती मार्ग, करोल बाग, नह दिल्ली-110005 ।

हरिसाणा, हिमाचल प्रवेश, जम्मू तथा कश्मीर, पंताब, राजस्थान तथा उत्तर प्रवेश राज्य क्षेत्रीं एवं संक शासित क्षेत्र चंडीगढ तथा दिल्ली ।

तार पता--- "पटेटा फिक"

## ALTERATION OF ENTRIES IN THE REGISTER OF PATENTS AGENT UNDER RULE 103 OF THE PATENTS RULES 1972

In pursuance of application on form 52, the addresses of Principal Place of business, branch offices and qualifications in respect of Mr. M. K. Chakrabarti, have been altered to: Principal place of business: M/s. I. S. Davar & Co.

and

M/s, H V Williams & Co, both of flats—1B & 1C, 'Monalisa' 17, Camac Street, Calcutta-700017.

Branch Offices: M/s L. S. Davar & Co., and M/s, H. V. Williams & Co., both of 506, Shakuntala, 59, Nehiu Place, New Delhi-110019.

Qualifications . LI.B. Advocate

Application for Patent filed at the Head Office at 234/4. Acharya Jagadish Bose Road, Calcutta-20.

The dates shown in the crescent branch are the dates claimed under section 135, of the patents Act, 1970.

## 15th December, 1993

787/Cal/93. Phillips petroleum company. Polymodal coupled resinous blocked copolymers

788/Cal/93. Om Chandra Kafley. Process for the manufacture of kafleys nicotine free cigarette and other items of smoking from leaves other than tobacco.

789 'Cul/93 Intermarket Media and promotions limited Rotating display element पेटॅंट कार्यालय शासा, 61, बालाशाह रोड, मदास-600002 ।

आत्थ्र प्रवेश, कर्नाटक, केरल, समिलनाड् राज्य क्षेत्र एवं संघ सासित क्षेत्र पाण्डिकोरी, तक्षदशीप, फिनिकाय तथा एमिनिचिषि दुवीप ।

सार प्सा---''पंट'टोफिस''

पंटेंट कार्यालय (प्रधान कार्यालय), निजाम पैलेस, दिवलीय बहुत्तनीय कार्यालय, भवन 5, 6 सथा 7वां सस, 234/4. आचार्य जगदीश वीस रोड, कलकत्ता-700020 ।

भारत का अथवीय क्षेत्र ।

तार पता--"पटेंट्स"

पेटोट अधितियम, 1970 या पेटोट गियम, 1972 में अप्रे-क्षित सभी आवेदन-पन्न, स्चनाए, विश्वरण या अन्य प्रलेख पेटोट कार्यालय को कोवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुस्क :—शुस्कों की अवार गी या तो नव्द की जाएगी अधना उपयुक्त कार्यालय के नियंत्रक को भूगतान योग्य अनादश अथवा अवत आदेश या जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान को अनसचित बैंक से नियंत्रक की भूगतान योग्य बैंक शूल्ट उद्या सैक द्वारा की जा सकती है।

## 16th December, 1993

790/Cal/93 E.J. Du Pont De Nemours and Company Improved Ballistic Structure.

791/Cal/93. Bugatti Electronics S.R.L. Multi-function feedback control system for internal combustion engines.

## 17th December 1993

792/Cal/93 Patent-treuhand-gesellschaft F. elektrische gluehlampen MBH. Circuit arrangement for radiofrequency operation of one or more loads connected to one another in parallel.

793/Cal /93. Instytut chemit pizemyslowej. A method of preparation of trichloroicocyanuric acid.

794/Cal/93 United Technologies Corporation. Method of reconditioning of high strength superalloy articles by inertia friction welding. (Divided out of No 1038/Cal/89 dated 15-12-89).

795/Cal/93. Shree Hari Pada Dolai. Symbolization of agricultural product.

## 20th December, 1993

796/Cal/93 Satya Ranjan Panja. Watching 100f guard.

797/Cal/93. Swapan Kumar Chattopadhyay. A novel refractory flame-gunning composition.

798/Cal /93. Thomson Consumer Electronics INC. Automatic display of auxiliary video information during audio muting.

- 799/Cal/93. Hoechst Aktiengesellschaft. Halogenated cinnamic acids and esters thereof, processes for the preparation thereof and halogenated aryldrazonium salts.
- 800/Cal/93, Hoechst Aktiengesellschaft. Salts of copolymers of ethylenically unsatorated carboxylic acids and ethylenically unsaturated fatty acid derivatives.
- 801/Cal /93. Patent-treuhand-gesellschaft für elektrische gluhlampen MBH. Circuit arrangement for igniting a low-pressure discharge lamp.
- 802 Cai 93. PATENT TREUHAND GESELLSCHAFT FUR elekrische giuhlampen MBH. Circuit arrangement for operating low-pressure discharge lamps.
- 803 Cal/93. Moneil-ppc, INC Environmentally friendly cutamenial tampon assembly and method of construction.
- 804/Cal/93. Low water binder, S.A. Process for the manufacture of a low-water requirement cementitious material and the material so manufactured.
- 805/Cal/93. Garry Randall Hart, Precision structural system. (convention No. PL6390 dated 18-12-92 in Australia convention No. PL9422 dated 17-6-93 in Australia).
- APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, AT TODI ESTATES, IIIrd FLOOR, SUN MILL COMPOUND, LOWER PAREL(W), BOMBAY-400013.

## 4th November, 1993

370/Bom/93. Manjula Consultancy Services Pvt. Ltd. An improved scouring preparations from fly ash arising from thermal power plant and a method of producing the same.

## 5th November, 1993

- 371/Bom/93. Crompton Greaves Ltd. A blank dispensing unit for a power press particularly inclinable C frame power press associated with a pick and place blank feeding system.
- 372/Bom/93. Crompton Greaves Ltd. An oscillating vacuum operated pick and place blank feeding system for an inclinable C frame power press.
- 373/Bom/93, Hindustan Lever Ltd. U.K. Priority dt 05-11-92. Cosmetic composition.
- 374/Bom/93. Dilip Shantaram Dahanukar. Process for manufacturing herbal powdered mass impregnated with insect feed bait form making water based foliar spray liquid for minimising damage due to insect attack in a sustained manner and promoting healthy agricultural plant growth and crop yield therefrom.
- 375/Bom 93. Dilip Shantaram Dahanukar. Process for manufacturing organic composition impregnated with insect feed bait forming manure beads/pellets for controlling sustained insect attack and promoting healthy agricultural plant growth and yields thereof.
- 376/Bom/93. Indo-Biotech Foods Limited. Process for manufacturing organic additive for liquid organic spray manures for retarding their evaporation and promoting health agricultural growth and crop yields therefrom.
- 377/Bom/93. Indo-B'otech Foods Limited. Process for manufacturing fruit jam and the like bread spread without any preservatives and artiflicial flavouring essences.

## 8th November, 1993

- 378/Bom/93. Harish Textile Engineers Ltd. Improvements in or relating to sueding machines.
- 379/Bom/93. Harish Textile Engineers Ltd. Air jet closing device.

- 380/Bom/93. Rajas Amarnath Nathuji. Device for growing a seedling/stem cutting for transplanting the same in the field.
- 381/Bom, 93. Automotive Research Association of India, Improved energy absorbing elements for high energy absorption bumpers.
- 382/Bom/93. Priyal Khanderao Kulkarni and Vijay Priyal Kulkarni. An improved U shaped collapsible bondage for medication of human teeth and gums.

## 10th November 1993

- 383/Boin/93. Chandrakant Sitaram Indolkar. Improvement in binding mechanism of flat office file.
- 384/Bom/93. Shilchar Core Pvt. Ltd. A slitting method of the circular cross sectional wound core material.

#### 12th November, 1993

- 385/Bom/93. Prabhakar Deodhar and Liladhar Sannabhadti. A telephone circuit.
- 386/Bom, 93. ISOVOLTA Osterreichische Isoherstoffweike Aktiengesellschaft. A halogen free iesin mixture having self extinguishing properties,

## 15th November, 1993

387/Bom/93, Vipin Champsey Shah. A new type of solar collector.

#### 16th November, 1993

- 388/Bom/93. Yeshwantrao Anandrao Gawanapatil, A method of producing dehydrated agricultural food products and an equipment thereof.
- 389/Bom/93. Hindustan Lever Ltd. G.B. Priority dt. 16-11-92. Detergent compositions.
- 390/Bom/93. Hindustan Lever Ltd. G.B. Priority dt. 18-11-92. ICE Confections.

## 17th November, 1993

391/Bom/93. Bejan Rustomji Ichhaporia. Electronics sun lock drive.

## 18th November, 1993

- 392/Bom/93. Hindustan Lever Ltd. G.B. Priority dt. 30-11-90, Method and apparatus for the production of (agged articles.
- 393/Bom/93. Cosmos Pharmaceutical Corporation. A process of manufacturing chemical compositions comprising cyclo and bicyclo alkenes which have anti-androgenic activity.

### 19th November, 1993

- 394/Bom/93. Vijay Ganesh Joglekar. A method and apparatus for irrigating plants at root zone.
- 395/Bom/93, Basil Almeida, An interactive board game simulating the rules of games, such as, football, hockey, ice hockey, rugby, American football, water polo and the like.
- 396/Bom/93. Sharad Bhalchandra Navathe. A surface disinfectant composition.
- 397/Bom/93. Hindustan Lever Ltd. Confectionery.

# APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600002,

## 6th December, 1993

- 870/Mas/93. Dr. Nanda Kishore. Methods of preparing a medicena ARBEETHAL for treating Beta Thalassacmia & Sickle Cell Anaemia.
- 871/Mas/93. Multistock International Limited. Improvements in plate. (December 7, 1992; Australia).
- 872/Mas/93. Foseco International Limited. Refractory Compositions. (December 22, 1992; Great Britain).

873/Mas/93. Centre Technique Des Industries Mechaniques.

Process for chromium plating subjected to rubbing.

## 7th December, 1993

- 874/May/93. Societe Des Produits Nestle S.A. Milk product.
- 875/Mas/93. Dynamit Nobel Aktiengesellschaft. Safety fuse to prevent ignition of a shell in the initial part of its flight, and a shell equipped with such a fuse.
- 876/Mas/93. Kubota Corporation. Filtration membrane cartridge.
- 877/Mas/93. ABB Flakt AB. Method for controlling the current pulse supply to an electrostatic precipitator.

## 8th December, 1993

- 878/Mas/93. Solvay Interox Limited. Microbicidal Compositions. (December 24, 1992, United Kingdom).
- 879/Mas/93, Bechtel Group Inc. Combined power environmental cycle (CPEC).
- 880/Mas/93. Dana Corporation. Composite powdered metal retaining ring.

## 9th December, 1993

- 881/Mas/93. The South India Textile Research Association.

  A device for reducing long length thin faults of yarn in ring frames and ring frames provided with said device.
- 882/Mas/93. Welgro B.V. Vehicel for transporting powderform, granular or pellot-like material and method for unloading such vehicle,
- 883/Mas, 93. Pull Corporation. Manufacturing method for producing sterile milk using dynamic microfiltration.

## 10th December, 1993

- 884/Mas/93. Shell Internationale Research Maatschappij B.V. Refined petroleum wax composition.
- 885/Mas/93, Nettnanickal John Joseph. A laterite stone cutting machine.

## ALTERATION OF DATE UNDER SECTION 16

Patent No 173024 (27/M/91) Ante-dated to 10th July, 1987.

Patent No. 173026 (386/M/91) Ante-dated to 28th August, 1989.

Patent No. 173027 (538/M/91) Ante-dated to 18th October, 1989.

Patent No. 173028 (537/M/91) Ante-dated to 18th October, 1989.

Patent No 173029 (612/M/91) Ante-dated to 18th December, 1989.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form-14 prescribed under the Patents Rules, 1972 before the expity of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule-36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification. Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta or the appropriate Branch Office on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against cuch accepted specification and multiplying the same by two to get the charges as the copying charges per page are Rs. 2/-.

## स्वीकृत सम्पूर्ण विनिदंश

एतद्द्वारा यह सूचना वी जाती है कि सम्बद्ध आगेदनों में ते किसी पर पेटांट अनुदान का विरोध करने के इच्छु क कोई व्यक्ति, इसके निर्मम की तिथि से चार (4) महीने या अधि में एसी अविध जो उकत 4 महीने की अविध की समाप्ति को पूर्व पेटांट नियम, 1972 के तहत विहित प्रपत्र 14 पर आगेदित एक महीने की अविध से अधिक न हो, को भीतर कभी भी नियंत्रक, एकस्य की उपयुक्त कार्यालय को एसे विरोध की सूचना विहित प्रपत्र 15 पर दो सकने हैं। जिराध सम्बन्धी लिखित बक्तव्या, उक्त सूचना के साथ अथवा पेटांट नियम, 1972 के निवम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

''प्रत्येक विनिद्धं के संदर्भ में नीच दिए वर्गिकरण, भार-तीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुष्य हैं।''

स्पांकन (चित्र आरोखों) की फोटो प्रतिगा यदि कोई हो, के माभ विनिदांकों की टेकिंग अश्रवा फोटो प्रतियां की आपूर्ति पेटोंट कार्यालर, केलकत्ता अथवा उपयुक्त कार्या कार्यालय वृंबारा विहित लिप्यान्तरण प्रभार जिसे उकत कार्यालय से पत्र-व्यवहार द्वारा मृतिदिचत करने के उपरान्त उमकी अदायगी पर की जा सकती है। विनिद्धिक की पृष्ठ मंख्या के साथ प्रस्तेक स्वीकृत विनिद्धिक के सामने नीचे विणित चित्र आरोस कारजों को ओड़कर उसे 2 से गुणा करके; (क्योंकि प्रस्तेक पृष्ठ का लिप्यान्सरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा मकसा है।

Ind. Class - 194 C<sub>5</sub> -[GROUP - LXIII(4)]

173021

Int. C'1 - H 01 G 7/18

HIGH YH'LD PAN SHAPED GETTER DEVICE

Applicant: S A E S GETTERS S p A ITALIAN JOINT STOCK COMPANY, OF VIA GALIARATE, 215/217, MILANO ITALY.

Inventors: (1) PAOLO DELLA PORTA

- (2) DANIPLE MARTELLI
- (3) GIUSEPPE URSO
- (1) STPFANO TRIVILLATO

Application No. 294/MAS 89 filed April 19, 1989.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972), Patent Office, Madras Branch.

## 16 Claims

An evaporable getter device for mounting in an electron tube comprising a pan-shaped container having a vertical sidewall formed around the perimeter of a disc-shaped bottom wall and a pulverized getter metal vapour releasing material pressed into the space formed by said sidewall and said bottom wall and first heat transfer retarding means adapted to delay the transfer of heat in a circumterential direction through said getter metal vapour releasing material and second heat transfer retarding means adapted to delay the transfer of heat in a radial direction through the getter metal vapour releasing material when the getter device is heated by currents induced from an RF field created by a coil positioned outside the tube opposite the getter device.

(Com. - 18 pages;

Drwus. 2 sheets)

Ind. Class - III - [GROUP - XXI(2)]

173022

Int. Cl.3 - D 04 B 35/28

A COMBINED DROP AND MIST LUBRICATION DE-VICE FOR SUPPLYING PREDETERMINED QUANTITY OF LUBRICANT AUTOMATICALLY TO THE DIFFER-ENT PARTS OF A KNITTING MACHINE AT DESIRED INTERVALS

Applicant: THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION. COIMBATORE AFRODROME P. O., COIMBATORE, - 641 014, TAMIL NADU, INDIA, A SOCI-ETY REGISTERED UNDER THE SOCIETIES REGIS-TRATION ACT, 1860.

Inventors: (1) LARAKAD VEDAMURIHY RATNAM

- (2) RAMACHANDRA NAIDU RAMA-MURTHY
- (3) SENNIMALAI GOUNDER RAMASWA-

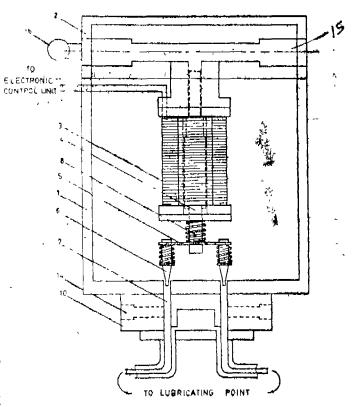
Application No 313/MAS/89 filed April, 25, 1989.

Complete Specification left April 17, 1990.

Appropriate Office for Opposition Proceedings (Rule 4. Patents Rules, 1972). Patent Office, Madras Branch.

## 2 Claims

A combined drop and mist lubrication device for supplying predetermined quantity of lubricant automatically to different parts of a knitting machine at desired intervals, the said lubrication device comprising a lubricant container (1) with a lid (2); an electrically operated solenoid (3) placed vertically into the said container (1) and attached to the fid (2) of the said container (1); a plunger (4) made of magnetic material placed in the central bore of the solenoid, the said plunger (4) being capable of moving up and down freely; a horizontal plate having at least one conical stopper (6) disposed vertically, the said horizontal plate (5) being attached to the lower part of the said plunger (1), the said conical stopper(s) (6) being seated in coaxial delivery tube(s) (7) provided at the bottom of the container (1) for closing lubricant passage when the solenoid (3) is not energised and a compressed air chamber (12) attached to the lower side of the said lubricant container for providing compressed air required for mist lubrication through a passage (11) along the periphery of the said coaxial tube(s) (7).



(Prov.-11 pages; Com. 12 pages;

Drwgs, - 2 sheets.)

Ind. Class - 32-E - [GROUP - IX(1)]

173023

Int. Cl.4 - € 08 F 219/16

A PROCESS FOR THE CONTINUOUS PRODUCTION OF A RANDOM COPOLYMER OF ETHYLENE AND PROPYLENE.

Applicant: UNION CARBIDE CORPORATION, A COR-Applicant: UNION CARBIDE CURPORATION, A CURPORATION ORGANISEE UNDER THE LAWS OF THE STATE OF NEW YRK OF OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, U.S.A.

Inventors: (1) FRED CHUN CHIEN TWU

(2) IAN DONALD BURDETT

Application No. 375/MAS/89 filed May 11, 1989.

Appropriate Office for Opposition Proceedings (Patents Rules, 1972), Patent Office, Madras Branch.

## 11 Claims (No. drawing)

A process for the continuous production of a random copolymer of ethylene and propylene, comprising contacting propylene, ethy'ene and optionally one or more higher alphaolefin Imonomers in the gas phase in a fluidized bed with a catalyst system comprising (i) a solid catalyst precursor which includes magnesium titanium; a halogen which is chlorine, bromine or jodine for mixture thereof; and a polycarboxylic acid ester containing two coplanar ester groups attached to adjacent carbon atoms: (i.) a hydrocarbyl aluminium cocatalyst; and (iii) a silicon compound of the formula  $R_a \, Si \, Y_b \, X_c$ in which R is a hydrocarbon radical having 1 to 20 carbon atoms: Y is OR of OVOT; and X is hydrogen, chrorine, bromine, or iodine; each R and Y are alike or different, a is an integer from 0 to 3; b is an integer from 1 to 4; c is 0 or a 1 b + c - 4; containing at least one silicon oxygen carbon goup, wherein the atomic ratio of aluminium to titanium is in the range of 5 to 300; the temperature in the fluidized bed is in the range of 50°C to 150°C; the atomic ratio of aluminium to the said silicon compound is in the range of 0.5 to 100; the propylene partial pressure is in the range of 50 to 600 psi; and the ethylene partial pressure is in the range of 0.25 to 25 psi.

(Com. - 24 pages)

Ind. Class - 206-E - [GROUP - LXII]

173024

Int. Cl.4 - H 04 B 5/04

## A WIDE AREA PAGING SYSTEM

Applicant: METROCAST; A GENERAL PARTNERSHIP DULY ORGANISED UNDER THE LAWS OF THE STATE OF CALIFORNIA, U.S.A. OF 11021 VIA FRONTERA. SAN DIEGO, CALIFORNIA 92127, U.S.A.

Inventors: (1) H DEAN CUBLEY

- (2) BARTUS H BATSON
- (3) THOMAS D DI NOTO
- (4) JOHN B MACLEOD
- (5) ROBERT M SKOMER

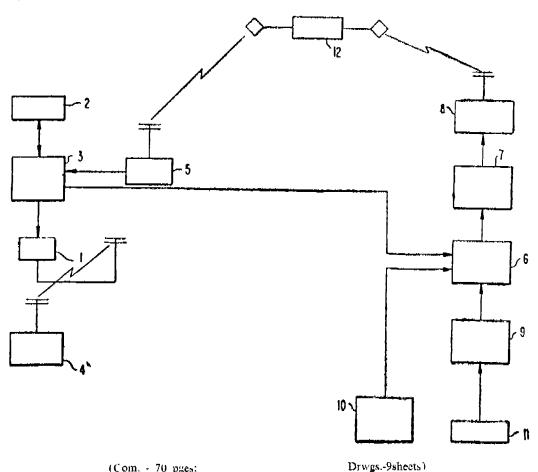
Application No. 27, MAS/91 filed January 17, 1991.

Divisional to Patent No. 169399 (270/MAS/87); Antedated to July 10, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch,

#### 11 Claims

A wide area paging system, said system comprising; focal page processing means within each geographical area served by said wide area paging system, wherein said local page processing means has means for receiving page information, coutrol means for controlling at least one conventional radio common carrier for broadcasting said page information throughout said geographical area and page information 16celving means for receiving said page information; and central page processing means connected to each of said local page processing means for receiving copies of page information from said local page processing means, said copies being distributed by said central page processing means to said local processing means, for broadcast in a geographical area other than the geographical area from which said page information originated.



(Com. - 70 pges;

Application No. 245/MAS, 91 filed March 25, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 15 Claims (No drawing)

A method of preparing a low-sling, high-tack fiber lubricant composition having a final viscosity of 50 SUS to 200 SUS comprising the steps of :

(a) admixing (i) a mineral oil vehicle having a viscosity of 40 to 200 SUS and 5 to 50 SUS lower than the final viscosity of the lubricant (ii) an emulgifier or mixture of emulsifteres in an amount sufficient to stabilize and homogeneize the

Ind. Class - 140-A, & B, - [GROUP - K1(2)] 173025 Int. Cl.4 - C 10 M 107/08

METHOD OF PREPARING A LOW-SLING HIGH-TACK FIBER LUBRICANT COMPOSITION HAVING A FINAL VISCOSTTY OF 50 TO 200 SUS AND A LOW-SLING HIGH-TACK FIBER LUBRICANT COMPOSI-TION.

Applicant: HENKEL CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, OF 7900 WEST 78TH STREET, MINNEAPOLIS, MINNESOTA 55435, U.S.A.

Inventors: (1) JOHN T CHILDERS

(2) ISSAC D FLFMING

lubricant and render it scourable, and (iii) an ultra-high molecular weight polyisobutylene additive having a number average molecular weight of at least 4,500,000 and comprising a mixture of isobutylene polymers tanging in number average molecular weight of 2,000,000 to 6,000,000, to provide an admixture having a viscosity of 10 to 30 SUS above the final viscosity of the lubricant; and

(b) agitating the mixture containing the polyisobytylene additive by applying controlled low shear forces to reduce the viscosity to the final viscosity of the lubricant and provide a lubricant containing 78% to 90% by weight mineral oil vehicle, 0.05% to 0.15% by weight polyisobutylene additive and a final viscosity of 50 to 200 SUS:

wherein the percentages are based on the weight of the total lubricant composition and the viscosities are in SUS at 100°F.

(Com - 17 pages)

Ind. Class - 32Fa(b)-[GROUP - XI(1)]

173026

Int. Cl.4 - C 07 D 203/00; 207/00

A METHOD OF PREPARING DERIVATIVES OF CAP-TOPRIL COMPOUND

Applicant: SEPRACOR, INC., A DELAWARE CORPORATION, OF 33 LOCKE DRIVE, MARLBOROUGH, MA 01752, U.S.A.

Inventor: CHARLES M ZEPP

Application No. 386/Mas/91 filed May 15, 1991.

Divisional to Patent Application No. 644/Mas/89; Anteduted to August 28, 1989.

Appropriate Office for Opposition Proceedings (Rule 4. Patents Kules, 1972), Patent Office, Madras Branch.

#### 1 Claim

A method of preparing a derivative of a captopul compound represented by the general formula IX of the accompanying drawings,

wherein:

R is hydroxy, -NHo or lower alkoxy;

Ri is lower alkyl, lower alkoxy, hydroxy, halide, phenyl or substituted phenyl wherein the substituents on the phenyl are halide, lower alkyl, hydroxy or lower alkoxy;

Ro is O, S or NH:

 $R_3$  is optionally present, if present it is lower alkyl, lower alkoxy, phenoxy, hydroxy, thio, alkylthio, arylthio, wherein the aryl group contains 6-26 carbond, halide, phenyl or substituted phenyl wherein the substitutents on the phenyl are halide, lower alkyl, haroxy, or lower alkoxy and wherein the  $R_3$  substitutents can be substituted for any methylene (-CH2-) hydrogen(s) of the ring;

R<sub>4</sub> is optionally present and if present it is lower alkyl. lower alkoxy, phenoxy, hydroxy, thiol, alkylthio, arylthio, wherein the aryl group contains 6-26 carbons, halide, phenyl or substituted phenyl wherein the substitutents on the phenyl are halide, lower alkyl, hydroxy or lower alkoxy and wherein the R<sub>4</sub> substituents can be substituted for any methylene (-CH<sup>2</sup>-) hydrogen(s) of the ring;

n is 1, 2 or 3;

p is 1, 3 or 4 and

said method comprises :

(a) reacting a compound represented by the formula  $L(CH^2)_n C_n HR^1 CO^2 H$  (formula XV)

wherein  $R_1$  is a as defined above and L is a leaving group, with a compound of formula

$$R_3 \Rightarrow C = S$$
 (formula XI)

wherein R<sub>4</sub> is O, S or NH and a compound of the group represented by formula XII of the accompanying drawings.

wherein p and  $R_4$  are as defined above; to form a compound represented by the formula XIII of the accompanying drawings.

wherein p, n, R1, R2 and R4 are as defined above;

- (b) converting said compound of formula XIII obtained in step (a) to an acylating agent by reacting it, for example, with the acid chloride of an inorganic acid:
- (c) reacting the said acylating agent with a compound of the group represented by formula XIV of the accompanying drawings, to form the said compound of formula IX, and
- (d) isolating the said compound—represented by the formula IX and if desired converting the same to its basic saft in a known manner.

FORMULA - XH

FORMULA- XIV

HIN - VENHUES

(Com.-10 pages;

Ind. Cl. 32-Fa(b) [GROUP-1X(1)]

173027

Int. Cl.4: C 07 D 239/06

A PROCESS FOR PRODUCING A TETRAHYDROPY-RIMIDINE COMPOUND.

Applicant: TAKEDA CHEMICAL INDUSTRIES LTD., A IAPANESE CORPORATION, OF 3—6, DOSHOMACHI, 2-CHOME, CHUO-KU, OSAKA, JAPAN.

Inventors: (1) HIDEKI UNEME

(2) ISAO MINAMIDA

(3) TETSUO OKAUCHI

(4) NORIKO HIGUCHI

Application No. 538/MAS/91 filed July 16, 1991.

Divisional to Patent Application No. 769/MAS/89; Ante-dated to October 18, 1989.

Appropriate Office for Opposition Proceedings (Rule 4. Patents Rules, 1972), Patent Office, Madras Branch.

#### 2 Claims

A process for producing a tetrahydropyrimidine compound of the formula 1-a of the accompanying drawings

FORMULA - 1-a

or its salt,

wherein R<sup>14</sup>, R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup> are the same or different and are each independently selected from the group consisting of:

## (1) a hydrogen atom;

(2) a hydrocarbon group selected from the group consisting of an alkyl group of 1 to 15 carbon atoms, a cycloalkyl group of 3 to 10 carbon atoms, an alkenyl group of 2 to 10 carbon atoms, an alkynyl group of 2 to 20 carbon atoms, a cycloalkenyl group of 3 to 10 carbon atoms, an aryl group of 6 to 10 carbon atoms, and an aralkyl group of 7 to 10 carbon atoms, said hydrocarbon group being unsubstituted or substituted with 1 to 5 substituents selected from the group consisting of nitro, hydroxyl, oxo, thioxo, cyano, carbamoyl, carboxyl, C1-4 alkoxycarbonyl, sulfo, halogen, alkoxy, phenoxy, C174 alkkylthio, phenylthio, C1-4 C1-4 alkylsulfonyl, amino, C1-4 acylamino. alkylsulfinyl, C1-4 methylamino, ethylamino, ln-propylamino, isopropoylamino, n-butylamino, dimethylamino, diethylamino, cyclohexylamino, anilino, C2-4 acyl, benzoyl and a heterocyclic group selected from the group consisting of 2-thienyl, 3-thienyl, 2-furyl, 3furyl, 3-pyrazolyl, 4-pyrazolyl, 2-thiazolyl, 4-thiozolyl, 5thiazolyl, 3-isothiazolyl, 4-isothiazolyl, 5-isothiazolyl, 2-oxazolyl, 4-oxazolyl, 5-oxazolyl, 3-isooxazolyl, 4-isooxazolyl, 5isooxazolyl. 2-imidazolyl, 4-imidazolyl, 5-imidazolyl, 1, 2, 3triazolyl, 1, 2, 4-triazolyl, 1H-tetrazolyl, 2H-tetrazolyl, 2pyridyl, 3-pyridyl, 4-pyridyl, 2-pyrimidyl, 4-pyrimidyl, 5-pyrimidyl, 3-pyridazinyl, 4-pyridazinyl, quiolyl, isoquinolyl and indelyl, said heterocyclic group being unsubstituted or substituted with 1 to 4 substituents selected from the group consisting of a halogen atom, C1-4 alkyl, halophenoxy, and halo C<sub>1-4</sub> alkyl, and when said hydrocarbon group is aryl, aralkyl, cycloalkyl or cycloalkenyl, said substituents further including a member selected from the group consisting of an alkyl group of 1 to 15 carbon atoms, an alkenyl group of 2 to 10 carbon atoms, an alkynyl group of 2 to 20 carbon atoms and an aryl group of 6 to 10 carbon atoms; and

(3) a five to eight-membered heterocyclic ring or a fused ring derivative thereof selected from the group consisting of 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyrrolyl, 3-pyrrolyl, 2pyridyl, 3-pyridyl, 4-pyridyl, 2-oxazolyl, 4-oxazolyl, 5-oxazolyl, 2-thiazolyl, 4-thiazolyl, 5-thiazolyl, 3-pyrazolyl, 4-pyrazolyl, 5-pyrazolyl, 2-imidazolyl, 4-imidazolyl, 5-imidazolyl, 3-isooxazolyl, 4-isooxazolyl, 5-isooxazolyl, 3-isothiazolyl, 4-isothiazolyl, 3-isothiazolyl, 3-(1, 2, 4-oxadiazolyl), 5-(1, 2, 4-oxadiazolyl), 1, 3, 4-oxadiazolyl, 3-(1, 2, 4-thiadiazolyl), 5-(1, 2, 4thiadiazolyl), 1, 3, 4-thiadiazolyl, 4-(1, 2, 3-thiadiazolyl) 5-(1, 2, 3-thiadiazolyl), 1, 2, 5-thiadiazolyl, 1, 2, 3-triazolyl, 1, 2, 4-triazolyl, 1H-tetrazolyl, 2H-tetrazolyl, N-oxido-2, 3pyridyl, N-oxido-4-pyridyl, 2-pyrimidyl, 4-pyrimidyl, 5-pyrimidyl, N-oxido-2-pyrimidyl, N-oxido-4-pyrimidyl, N-oxido-5pyrimidyl. 3-pyridazinyl, 4-pyridazinyl, pyrazinyl, N-oxido-3pyridazinyl, N-oxido-4-pyridazinyl, benzofuryl, benzothiazolyl, benzoxazolyl, thiazinyl, oxothluzinyl, tetrazolo (1, 5-b) pyridazinyl, triazolo (4, 5-b) pyridazinyl, oxoimidazinyl, dioxotriazinyl, pyrrolidinyl, piperidinyl, pyranyl, thiopyranyl, 1. 4-oxazinyl, morpholinyl, 1, 4-thiazinyl, 1, 3-thiazinyl, piperazinyl, benzimidazolyl, quinolyl, isoquinolyl, cinnolinyl, phtalazinyl, quinazolinyl, quinoxalinyl, indolidinyl, quinmolidinyl, 1, 8-naphthyridinyl, purinyl, pteridinyl, dibenzofuranyl, carbozolyl, acridingl, phenanthridinyl, phenazinyl, phenothiazinyl and phenoxazinyl, said heterocyclic ring or fused ring derivative thereof being unsubstituted or substituted with 1 to 5 substituents selected from the group consisting of said substituents for said hydrocarbon group:

wherein at least one of R<sup>14</sup> and R<sup>36</sup> is a group of the formula -(CH<sup>3</sup>)<sub>n</sub>-R<sup>3</sup> (wherein R<sup>6</sup> is selected from the group consisting of said unsubstituted five-to eight-membered heterocyclic ring, said substituted five to eight membered heterocyclic ring, said fused ring thereof and an aryl group of 6 to 10 carbon atoms substituted atoms substituted with 1 to 3 halogen atoms, and n is equal to 0 or 1); and

X represents an electron accepting group selected from the group consisting of cyano, nitro,  $C_{1^{-4}}$  alkoxycarbonyl, hydroxycarbonyl,  $C_{a^{-1}0}$  aryloxycarbonyl, pyridyloxycarbonyl, thienyloxycarbonyl,  $C_{1^{-4}}$  alkylsulfonyl which may be substituted with halogen and a  $C_{1^{-4}}$  acyl group which may be substituted with halogen; or a salt thereof.

which comprises reacting a compound of the formula VI of the accompanying drawings

FORMULA - VI

or its salt, wherein R<sup>1b</sup>, R<sup>2a</sup>, R<sup>8b</sup> or R<sup>4a</sup> independently means (1) hydrogen, (2) the above-defined substituted or unsubstituted hydrocarbon group or (3) the above-defined substituted or unsubstituted heterocyclic group, provided that at least one of R<sup>1b</sup>, R<sup>2a</sup>, R<sup>3b</sup> and R<sup>4a</sup> means a hydrogen atom, and X has the same meaning as defined above, with a compound of the formula VII of the accompanying drawings,

## FORMULA - VII

wherein R<sup>7</sup> means (2) the above-defined substituted or unsubstituted hydrocarbon group and Y means halogen atom or an alkylsulfonyloxy, arylsulfonyloxy or acyloxy which may be substituted by halogen, the amount of the compound VII or its salt being 0 8 to excess equivalent based on the compound of the formula VI.

in the absence of a solvent or in a proper solvent at 20 to 150°C, if necessary, in the presence of an organic or inorganic base.

(Com. 57 pages;

Drwgs, 7 sheets)

Ind. Cl.: 32-F. 2(b)--[GROUP-TX(1)] 173028

Int. Cl.4 : C 07 D 239/06

A PROCESS FOR PRODUCING A TETRAHYDROPY-RIMIDINE COMPOUND.

Applicant: TAKEDA CHEMICAL INDUSTRIES LTD., A JAPANESE CORPORATION, 3-6, DOSHOMACHI, 2-CHOME, CHUO-KU, OSAKA, JAPAN.

Inventors: (1) HIDEKI UNEME

- (2) ISAO MINAMIDA
- (3) TETSUO OKAUCHI
- (4) NORIKE HIGUCHI

Application No. 537/MAS/91 filed July 16, 1991.

Divisional to Patent Application No. 769/MAS/89; Antedated to October 18, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch,

## 2 claims

A process for producing a tetrahydropyrimidine compound of the formula I-a of the accompanying drawings or its salt,

FORMULA 1-A

wherein R<sup>1a</sup>, R<sup>2</sup>, R<sup>2a</sup> and R<sup>a</sup> are the same or different and are each independently selected from the group consisting of : 2-437GI/93

## (1) a hydrogen atom;

(2) a hydrocarbon group selected from the group consisting of an alkyl group of 1 to 15 carbon atoms, a cycloalkyl group of 3 to 10 carbon atoms, an alkenyl group of 2 to 10 carbon atoms, an alkynyl group of 2 to 20 carbon atoms, a cycloalkenyl group of 3 to 10 carbon atoms, an aryl group of 6 to 10 carbon atoms, and an aralkyl group of 7 to 10 carbon atoms, said hydrocarbon group being unsubstituted or substititued with 1 to 5 substituents selected from the group consisting of nitro, hydroxyl, oxo, thioxo, cyano, carbamoyl, carboxyl, C<sub>1-4</sub> alkoxycarbonyl, sulfo, halogen, C<sub>1</sub>-4 alkylthio, phenylthlo, C<sub>1-1</sub> phenoxy, C<sub>1-4</sub> alkylsulfinyl, C<sub>1-4</sub> alkylsulfonyl, amino, C<sub>2</sub>-6 acylamino, methylamino, ethylamino, n-propylamino, isopropylamino, n-butylamino, dimethylamino, diethylamino, cyclcohexylamino, anilino, C2-4 acyl, benzoyl and a heteroocyclic group selected from the group consisting of 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 3pyrazolyl, 4-pyrazolyl, 2-thiazolyl, 4-thiazolyl, 5-thiazolyl, 3isothiazolyl, 4-isothiazolyl, 5-isothiazolyl, 2-oxazolyl, 4oxazolyl, 5-oxazolyl, 3-isooxazolyl, 4-isooxazolyl, 5-isooxazolyl, 2-imidazolyl, 4-imidazoly, 5-imidazolyl, 1, 2, 3-triazolyl, 1, 2, 4-triazolyl, 1H-tetrazolyl, 2H-tetrazolyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, 2-pyrimidyl, 4-pyrimidyl, 5-pyrimidyl, 3-pyridazinyl, 4-pyrldazini, quiolyl, Isoquinolyl and indolyl, said heterocyclic group being unsubstituted or substituted with 1 to 4 substituents selected from the group consisting of a halogen atom, alkyl, halophenoxy, and halo C<sub>1-4</sub> alkyl, and when said hydrocarbon group is aryl, aralkyl, cycloalkyl or cycloalkenyl, said substituents further including a member selected from the group consisting of an alkyl group of 1 to 15 carbon atoms, an alkenyl group of 2 to 10 carbon atoms, an alkynyl group of 2 to 20 carbon atoms land an aryl group of 6 to 10 carbon atoms; and

(3) a five to eight-membered heterocylic ring or a fused ring derivative thereof selected from the group consisting of 2-thlenyl, 3-thlenyl, 2-furyl, 3-furyl, 2-pyrrolyl, 2-pyrrolyl, 2-pyrłdyl, 3-pyridyl, 4-pyridyl, 2-oxazolyl, 4-oxazolyl, 5oxazolyl, 2-thiazolyl, 4-thiazolyl, 5-thiazolyl, 3-pyrazolyl, 4pyrazolyl, 5-pyrazolyl, 2-imidazolyl, 4-imidazolyl, 5-imidazolyl, 3-isooxazolyl, 4-isooxazolyl, 5-isooxazolyl, 3-isothiazolyl, 4isothiazolyl, 5-isothiazolyl, 3-(1, 2, 4-oxadiazolyl, -5-(1, 2, 4oxadiazolyl), 1, 3, 4-oxadiazolyl, 3-(1, 2, 4-thiadiazolyl). 5-(1, 2, 4-thiadiazolyl), 1, 3, 4-thiadiazolyl, 4-(1, 2, thiadiazolyl), 5-(1, 2, 3-thiadiazolyl), 1, 2, 5-thiadiazolyl, 1, 2. 3-triazolyl, 1, 2, 4-triazolyl, 1H-tetrazolyl, 2H-tetrazolyl, Noxido-2, 3-pyridyl, N-oxido-4-pyridyl, 2-pyrimidyl, 4-pyrimidyl, 5-pyrimidyl, N-oxido-2-pyrimidyl, N-xoido-4-pyrimidyl, Noxido-5-pyrimidyl, 3-pyridazinyl, 4-pyridazinyl, pyrazinyl, Noxido-3-pyridazinyl, N-oxido-4-pyridazinyl, benzofuryl, benzothiazolyl, benzoxazolyl, triazinyl, oxotriazinyl, tetrazolo (1, 5b) pyridazinyi, triazolo (4, 5-b) pyridazinyi, oxoimidazinyi, dioxoriazinyl, pyrrolidinyl, piperidinyl, pyranyl, thiopyranyl, 1, 4-oxazinyl, morpholinyl, 1, 4-thiazinyl, 1, 3-thiazinyl, piperazinyl, benzimidazolyl, quinolyl, isoquinolyl, cinnolinyl, phathalazinyl, quinazolinyl, quinoxalinyl indolidinyl quinmolidinyl, 1, 8-naphthyridinyl, purinyl, pteridinyl, dibenzofuranyl, carbazoyl, acridinyl, phenanthridinyl, phenazinyl, phenothiazinyl and phenoxazinyl, said heterocyclic ring or fused ring derivative thereof being unsubstituted or substituted with 1 to 5 substituents selected from the group consisting of said substituents for said hydrocarbon group;

wherein at least one of R<sup>1</sup>\* and R<sup>3</sup>\* is a group of the formula -(CH<sup>1</sup>)<sub>n</sub>-R<sup>5</sup> (wherein R<sup>2</sup> is selected from the group consisting of said unsubstituted five-to eight-membered heterocylic ring, said substituted five to eight membered heterocyclic ring, said fused ring thereof and an aryl group of 6 to 10

carbon atoms substituted with 1 to 3 halogen atoms, and n is equal to 0 or 1); and

X represents an electron accepting group selected from the group consisting of cyano, niktro,  $C_{1-4}$  alkoxycarbonyl, hydroxycarbonyl,  $C_{6-10}$  aryloxycarbonyl, pyridyloxycarbonyl, thenyloxycarbonyl,  $C_{1-4}$  alkylsulfonyl which may be substituted with halogen and a  $C_{1-4}$  acyl group which may be substituted with halogen; or a salt thereof,

which commises reacting a compound of the formula IV of the accompanying drawings, wherein R<sup>3</sup>\*, R', and X have the same meanings as defined above and R<sup>n</sup> means a lower alkyl group with an amine of the formula V of the accompanying drawings

FORMULA - IV

FORMULA - V

or its salt, wherein R<sup>1a</sup> and R<sup>2</sup> have the same meanings as defined above, the amount of the amine or its salt being 0.8 to 10 equivalents based on the compounds of the formula IV in the absence of a solvent or in a proper solvent at 0 to 100 C, if necessary, in the presence of an organic or inorganic base and or a heavy metal salt.

(Com. 54 pages;

Drwgs, 7 sheets)

Ind. Cl.: 32-F2(h)-[GROUP-IX(1)] 173029

Int. Cl.4 : C 07 D 521/00

A PROCESS FOR THE PREPARATION OF GUANIDINE DERIVATIVE AND A SALT THEREOF.

Applicant: TEKEDA CHEMICAL INDUSTRIES LTD., 3-6, DOSHOMACHI 2-CHOME, CHUO-KU, OSAKA, JAPAN, A JAPANESE COMPANY.

Inventors: (1) HIDEKI UNEME

- (2) KEICHI IWANAGA
- (3) NORIKO HIGUCHI
- (4) ISAO MINAMIDE
- (5) TETSUO OKAUCHI

Application No. 612/MAS/91 filed August 13, 1991.

Divisional to Patent Application No 928/MAS 89; Antedated to December 18, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch,

## 2 claims

A process for the preparation of the guandine derivative of formula (Ia) shown in the accompanying drawings comprising reacting a compound of formula (III) of the accompanying drawings,

$$R^{18} = CH_2 - \frac{R^{28}}{R^{39}}C = N - X^2$$

FORMULA I

FORMULA III

wherein Y is a  $C_{1-4}$  alkyl-thio group,  $R^{\pm a}$  is a secondary or tertiary amino group,  $X^a$  is nitro group or trifluorocetyl group with a compound of the formula IV

$$R^{2a}$$

$$|$$

$$R^{1a}-CH_2-NH$$
 (IV)

wherein  $R^{1n}$  is an optionally substituted heterocyclic group,  $R^{2n}$  is hydrogen atom or an optionally substituted hydrocarbon group, at a temperature of ---20°C to 150°C for 10 minutes to 50 hours and recovering the product by any known method, and preparing salt thereof by conventional method.

(Com. 60 pages:

Drwgs. 10 sheets)

Ind. Class-32-C-[GROUP-IX(1)]

173030

Int. Cl.4—C 07 K 3/00

## A PROCESS FOR PREPARING A PROTEIN

Applicant: CENTRO DE INGENIERIA GENETICA Y BIOTFCNOLOGIA, A GOVERNMENT OF CUBA ORGANIZATION, OF 31 STREET, '/156 & 190, CUBANACAN, PI AYA. HAVANA, CUBA

Inventors: (1) RICARDO SII VA RODRIGUEZ

- (2) MANUEL SELMAN HOUSSEIN SOSA
- (3) GERARDO GUILLEN NIETO
- (4) LUIS SATURNINO HERRERA MAR-
- (5) JULIO RAUL FERNANDEZ MASO
- (6) LIDIA INES NOVOA PEREZ
- (7) IUAN MORALFS GRILLO
- (8) VIVIAN MORFRA CORDOVA
- (9) SONIA GONZALEZ BIANCO
- (10) BEATRIZ TAMARGO SANTOS
- (11) JESUS AUGUSTO DEL VALLE RO-SALES
- (12) EVILIN CABALLERO MENENDEZ
- (13) ANABEL ALVAREZ ACOSTA
- (14) EDELGIS COUZEAU RODRIGUEZ
- (15) SILIAN CRUZ LEON
- (16) ALEXIS MUSACCHIO LASA

Application No. 662/MAS/91 filed on September 4, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 6 Claims

A process for preparing a protein selected from the group consisting of (1) protein P64k of Neisseria meningitidies essentially having the amino acid sequence shown in SEQ ID No. 1, (2) a fusion protein comprising said protein P64k, (3) a Lipoamide deshydrogenase able to induce antibodies against said protein P64k, and (5) a modification of any one of proteins (1) to (4) which is able to induce antibodies against said protein P64k, comprising the steps of transforming host cells with an expression vector containing a nucleotide sequence coding for said protein by means of known bioconversion techniques; culturing the transformed host cells under known growth conditions and nutrient medium and isolating the resulting protein in a conventional manner.

(Compl. Specn. 44 pages;

Digns.—3sheets)

Cl. 127 L. 173031

Int. Cl. B 23 Q, 16/00.

"ARRANGEMENT OF WORK LOCATIONS".

Applicant & Inventor: WOLFGANG PRIESEMUTH. OF POSTKAMP 13, 2210 BREITENBURG-NORDOE, WEST GERMANY.

Application No. 493 Cal / 89; filed on 26-06-1989,

Appropriate office for opposition proceedings (Rule 4, Patent rules 1972) Patent office, Calcutta,

## 14 Claims

An arrangement of work locations for the mass production of small, complex units, comprising:

a table having a basically ring-shaped table top that is divided into individual sectors, each of which provides one of said work locations about the periphery of said table; the center of said table is provided with a region that is free of said table top; supply lines, such as for power, lighting, gas, air, water, discharge, gas venting, etc., are disposed in said central region for all of said work locations.

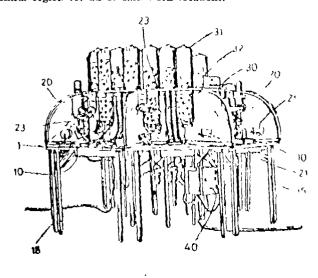
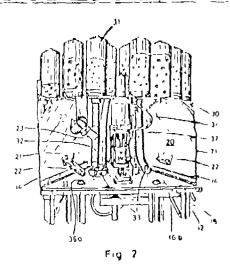


Fig 1



(Compl. speen. 12 pages;

Drgns. 3 sheets)

Cl. 69 Q

173032

Int. Cl. H 01 H 3/60.

"A RUBBER STOP ASSEMBLY FOR MULTI POLE CIRCUIT BREAKERS'.

Applicant: WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors: (1) WILLIAM ELLSWORTH BEATTY JR.

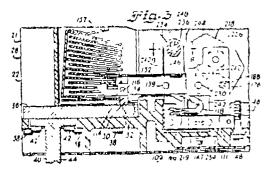
- (2) LAYRANCE JOSEPH KAPPLES,
- (3) LANCE GULA,
- (4) JOSEPH FRANK CHANGLE,

Application No. 538/Cal/89; filed on 11th July, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent rules 1972) Patent office, Calcutta.

## 20 Claims

A rubber stop assembly for a multipole circuit breaker having a housing which includes a base portion and a cover portion, a center pole pair of separable contacts disposed between a pair of sideplates, one or more pairs of outside pole separable contacts, an operable mechanism and a cross-bar assembly, at least one separable contact of said pair of center pole contacts and said one or more pairs of outside pole separate contacts is carried by one portion of a pivotally mounted contact arm adapted to move in a path between an open position and a closed position comprising first supporting means for supporting a shock absorber assembly in a spaced apart relationship from the circuit beaker cover in a position within the path of said one portion of said pivotally mounted contact arm for said one or more outside poles, in which said shock absorber assembly is mounted in said first supporting means between the circuit breaker cover and the pivotally mounted contacts arm and means for securing said first supporting means to the circuit breaker housing.



(Compl. specn. 31 pages;

Drgns. 7 sheets)

C1, 71 E

173033

Int. Cl. E 02 F 3/14.

"BUCKET SYSTEMS FOR EXCAVATION APPARA-TUS".

Applicant: BUCYRUS-ERIE COMPANY OF P.O. BOX 500, 1100 MILWAUKEE AVENUE, SOUTH MILWAUKEE, WISCONSIN 53172, UNITED STATE OF AMERICA

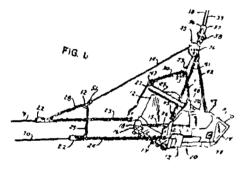
Inventors: (1) DONALD JACOB BEHLENDORF, (2) FREDERICK IOHN KEIP, (3) ROBERT LOUIS BENSON.

Application No 607/Cal/89; filed on 27th July, 1989.

Appropriate office for opposition proceedings (Rule 4. Patent rule 1972) Patent office, Calcutta.

## 10 Claims

A bucket system for an excavating apparatus computing; A bucket having side walls, a rear wall and a floor having a forward lip with excavating teeth extending therefrom, and drag and dump lines connected to a forward portion of said bucket and hoist lines connected to rearward portions of said side walls, side walls having upper wall edges extending downwardly toward said rear wall to join said rear wall at a level lower than front portions of said side wall and defining open area means with the rear wall to provide an open back area of the rear of said bucket, said open area constructed and arranged with respect to an upper edge portion of said rear wall to afford a complete dumping of said bucket.



(Compl. specn. 23 pages;

Drgns. 3 sheets).

Cl. 206 C.

173034

Int. Cl. G 01 S 13/00.

"SURVEILLANCE SENSOR".

Applicant: HOLLANDSE SIGNAALAPPARATEN B.V. ZUIDELIIKE HAVENWEG 40, 7550-GD HENGBLO, THE NEIHERLANDS.

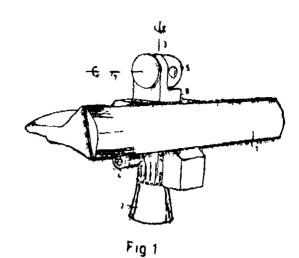
Inventor: DE GROOT, GERRIT.

Application No. 738/Cal/89; filed on 7th September, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent rule 1972) Patent office, Calcutta.

## 26 Claims

Surveillance sensor which is provided with at least one surveillance radar antenna rotatable about at least one first axis of lotation, characterised in that the surveillance sensor is provided with at least one electro-optical sensor mechanically connected to the radar antenna.



(Compl. specn 18 pages;

Drgns, 3 sheets).

Cl. 129 M.

173035

Int. Cl. B 23 D 15/02, 15/06.

"APPARATUS FOR SHEAR-CUTTING A STACK OF AMORPHOUS STEEL SHEETS."

Applicant: GENERAL ELECTRIC COMPANY. OF 1 RIVER ROAD, SCHENECTADY 5 NEW YORK, UNITED STATES OF AMERICA.

Inventors: (1) ALAN IRWIN TAUB, (2) MINYOUNG LEE, (3) LOUIS EMERSON HIBBS JR.

Application No. 753/Cal/89; filed on 13th Sept, 1989.

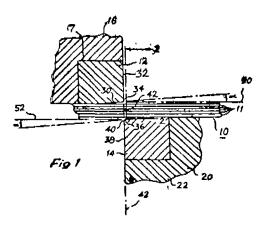
Appropriate office for opposition proceedings (Rule 4, Patent rule 1972) Patent office, Calcutta.

## 8 Claims

Apparatus for shear-cutting a stack of thin amorphous steel sheets along a cutting plane that extends transversely of said stack, comprising;

- (a) first and second blades each having a first surface for engaging said stack at one side thereof and a second surface that extends transversely of said first surface and generally parallel to said cutting plane, the first and second surfaces of each blade intersecting at a corner,
- (b) means for positioning said blades at the start of a cutting operation so that said corners are positioned at opposite sides of said stack and also on opposite sides of said cutting plane in juxtaposition thereto, and
- (c) means for moving one of said blades during a cutting operation so that the corner thereof moves towards the corner of the other blade in a direction parallel to said cutting plane, thereby causing the corners of said blades to shearcut the stack along said cutting plane, and further characterised by:
- (d) said first surface of said one blade being disposed at a predetermined rake angle with respect to a reference plane extending through a point on the corner of said one blade and normal to said cutting plane and to the direction of motion of said one blade,
- (e) said first surface of said other blade being diposed at a predetermind rake angle with respect to a reference plane extending through a point on the corner of said other blade and normal to said cutting plane and to the direction of motion of said one blade, and

(f) the sum of said rake angles being a negative value of between 5 degrees and 35 degrees.



(Compl. specn, 11 pages;

Drgn. 1 sheet)

CI, 129-G-XXXV.

173036

Int. Cl. B 21 K 21/16.

"A METHOD FOR MAKING METAL MATRIX COMPOSITE BODIES".

Applicant: LANXIDE TECHNOLOGY COMPANY, LP. OF TRALEE INDUSTRIAL PARK, NEWARD, DELAWARE 19714-6077, UNITED STATES OF AMERICA.

Inventors: (1) DANNY RAY WHITE, (2) ANDREW WILLARD URQUHART,

Application No. 799/Cal/89; filed on 29th Sept. 1989.

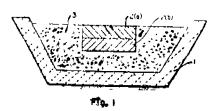
Appropriate office for opposition proceedings (Rule 4, Patent rule 1972) Patent office, Calcutta,

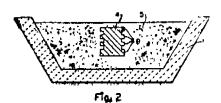
## 39 Claims

A method for making a metal matrix composite, comprising; forming an ingot of matrix metal as herein defined; at least partially surrounding said ingot with a substantially non-reactive filler as herein defined;

heating at least said ingot to render it molten, thereby forming a source of molten matrix metal; and

spontaneously infiltrating the filler with said molten matrix metal,





Drgns. 3 sheets).

Cl. 172 Cl & 172-C 9.

173037

Int. Class. D 01 G 15/02, 15/08, 15/14.

"A DEVICE IN A CARDING MACHINE WITH MOVING CARD TOP, MADE OF COVER BARS PROVIDED WITH GRANITURE".

Applicant: TRUTZSCHLER GMBH & CO. KG. OF DUVENSTR, 82-92, D-4050, MONCHENGLADBACH 3, WEST GERMANY.

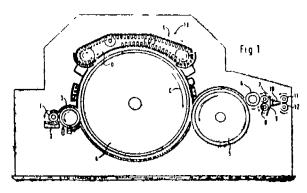
Inventor: PETER JAOST.

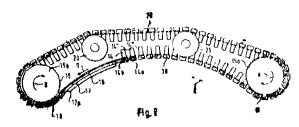
Application No. 826/Cal/89; filed on 04th October, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent rule 1972) Patent office, Calcutta,

## 26 Claims

The device in a carding machine with the moving card top of cover bars provided with graniture, in which case at least one endless flexible strap is provided during the forward run of the cover bars and where the cover bars slide on the ways with their both the ends and subsequently are guided back again on the said lying opposite to the slideways, wherein the outer side (16a) of the flexible strap (16) and the ends (14a) of the cover bars (14; 14', 14",....14n) being adapted to be in engagement in the interlocking state with each other.





(Compl. specn. 19 pages;

Drgns. 8 sheets).

C1. 63B.

173038

Int. Cl. H 02 K 37/00.

"A ROTOR ASSEMBLY FOR A STEPPING MOTOR FOR AN ELECTRONIC TIMEPIECE".

Applicant: TIMEX CORPORATION, OF P. O. BOX. 2126, WATERBURY, CONNECTICUT 06720, UNITED STATES OF AMERICA.

Inventors: (1) MICHEL PLANCON, (2) MICHEL BERTRIX.

Application No. 871/Cal/89; filed on 19th Oct, 1989,

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

#### 8 Claims.

A rotor assembly for a stepping motor for an electronic timepiece comprising;

· a rotor having a shaft and driving member.

A centering washer disposed on said shaft and having a side thereof opposite said driving member defining a recess having a finished cylindrical wall portion coaxial with said shaft and defining a first annular abutment surface at the bottom of the said recess.

A substantially cylindrical conventional rare earth permanent magnet having a rough center hole defining an annular clearance with said shaft and having a finished outer wall portion extending only a portion of its exial length into said recess with a loose fit and contacting said first annular surface.

a holding washer having a center hole forming an interference fit with said shaft and pressed onto said shaft to force said magnet axially against the first abutment surface, and

means restraining axial movement of said centering washer on said shaft, whereby said washers hold the magnet in position on said rotor shaft and whereby said cylindrical wall portion of the recess centers the magnet ridially with respect to the shaft axis.

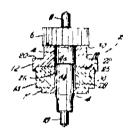


FIG.I

(Compl. specn. 15 pages;

Drgns. 1 sheet).

Class. 194C1.

173039

Int. Cl. H 01 J 29/06.

"SHADOW MASK FRAME ASSEMBLY FOR COLOR CATHODE RAY TUBE".

Applicant: SAMSUNG ELECTRON DEVICES CO. LTD. OF 575, SHINRI, TEAEN-EUB, HWASEONG-GUN, KY-UNGGI-DO, KOREA

Inventor: (1) CHUL-SOO KIM.

Application No. 892/Cal/89 filed on 25th Oct., 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

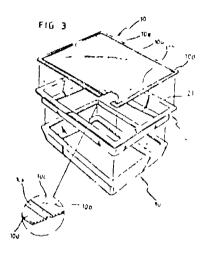
## 2 Claims.

A shadow mask frame assembly for a color cathode ray tube comprising; a shadow mask having numerous beam passing holes in a beam, passing plate thereof; and a frame for fixedly supporting said shadow mask,

characterised in that an outwardly extended flange is provided along the front edge of said frame to the side where said shadow mask is weld-fixed, and

that a welding girth is provided along the edges of said shadow mask at a position matingly facing said flange and

on a substantially same plane as that of said beam passing plate, wherein a reinforcing ridge is formed.



(Compl. specn. 9 pages;

Drgns. 3 sheets)

Cl. 44-XLI (4).

173040

Int. Cl. G 04 C 3/00.

"AN IMPROVED THREE HAND QUARTZ ANALOG TIMEPIECE HAVING A STEPPING MOTOR".

Applicant: TIMEX CORPORATION, OF P.O. BOX 2126, WATERBURY, CONNECTICUT, 06720, UNITED STATES OF AMERICA.

lnventors (1) HERBERT SCHWARTZ, (2) PAUL WUTHRICH.

Application No. 1046/Cal/89 filed on 18th Dec. 1989

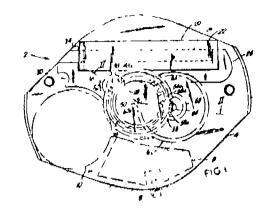
Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

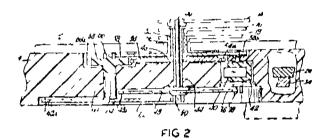
## 7 Claims

An improved three hand quartz analog timepiece having a stationary member, a stepping motor with a rotor pinion adapted to periodically rotate half a revolution, and a plurality of coaxial output members rotatably mounted in said statiouary member, said coaxial output members including a seconds spindle adapted to receive a "seconds" hand and having a toothed seconds sheel and a reduction drive pinion connected thereto, said seconds wheel meshing with and driven by said rotor pinion, a minutes sleeve adapted to receive a "minutes" hand and having a toothed minutes wheel connected thereto, and an hours sleeve adapted to receive an "hours" hand and having a toothed hours wheel connected thereto, characterised in that a dual reduction gear assembly having a single shaft rotatably is mounted in said stationary member, said assembly having a toothed third wheel meshing with and driven by said reduction drive pinion, a first reduction pinion meshing with and driving said hours wheel and a second reduction pinion meshing with and driving said minutes

wheel whereby said reduction drive pinion directly drives both the mibutes wheel and the hours wheel through said dual reduction pear assembly

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(Compl. specn. 9 pages

Drgns, 2 sheets)

Cl. 40 F, 85 K

173041

Int C1<sup>4</sup>: F 23 B 1/38; F 23 C 1/12 1/06 B 01 J 8/18

"A METHOD OF COMBUSTION OF COMBUSTIBLE PARTICULATE SOLID FUEL FOR PRODUCING GASEOUS PRODUCTS AND AN IMPROVED FLUIDIZED BED REACTOR THEREFOR COMBUSTING PARTICULATE SOLID MATERIAL."

Applicant: FOSTER WHEELER ENERGY CORPORA-TION, OF PERRYVILLE CORPORATE PARK, GI-IN-TON, NEW JERSEY 08809—4000, UNITED STATES OF AMERICA.

Inventors: (1) MICHAEL GERARD ALLISTON,

(2) KENNETH ALBERT REED.

Application No 500/Cal/89; Filed on 27th June, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent rule 1972) Patent Office, Calcutta

## 2 claims

A method of combustion of solid particulate fuel for producing gaseous products which comprises subjecting sald particulate solid fuel to combustion in a fluidized bed reactor by maintaining a primary bed of known particulate inert solid material having a varying size and including said fuel, introducing air into the said bed to facilitate fluidization of

the bed and promote combustion of the solid fuel and obtaining mixture of air and said gaseous products of combustion characterized by the improvement wherein relatively coarse particles of the particulate solid materials of the primary fluidized bed reactor having a varying sized is discharged from the bed into a secondary bed, the said relatively coarse particles are subjected to fluidization by compressed air in said secondary bed so as to separate the relatively intermediate and fine particles from the coarse particles in the fluidized stream, said air stream carrying the said relatively intermediate and fine particles being fed to the bed of particulate solids of the primary bed reactor while the coarse material is discharged from the secondary bed reactor.

(Compl. Specn. 13 pages.

Drans. 1 Sheet)

Cl.: 126-D

173042

Int. Cl.; G 01 R 31/00,

"ABNORMALITY DIAGNOSING SYSTEM FOR A HIGH VOLTAGE POWER APPARATUS."

Applicant: HITACHI LTD., OF 6, KANDA SURUGA-DAI 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventore: (1) JUN OZAWA,

(2) FUMIHIRO ENDO,

(3) YOICHI OSHITA,

(4) IZUMI YAMADA,

(5) TOKIO YAMAGIWA,

(6) HIROSHI YAMADA,

(7) MITSUO SAWAIRI,

(8) HAJIME NAGAL

Application No. 502/Cal/89; filed on 27th June, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent rule 1972) Patent Office, Calcutta,

## 13 claims

An abnormality diagnosing system for a high voltage power apparatus comprising:

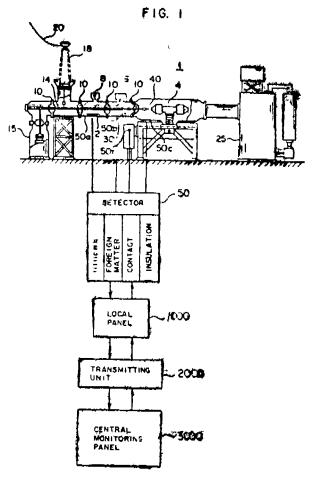
a plurality of detectors for detecting abnormalities of the high-voltage power apparatus;

local panel means disposed proximate to the high voltage power apparatus and including means for amplifying out puts of said plurality of detectors; and

central monitoring panel means disposed at a location remote from the high-voltage power apparatus and comprising means responsive to the output signal supplied by said amplifying means of said local panel means through a signal transmitting means and for detecting abnormalities of the high-voltage power apparatus on the basis of the detected signals of said detectors and outputting an abnormality signal;

wherein said plurality of detectors detect a predetermined phenomena indicative of at least an: insulation abnormality, power supply abnormality and foreign matter among abnormalities existing inside of the high-voltage power apparatus, at least one of said local panel means and said central monitoring panel means effecting frequency analysis on at least on of abnormality signals from said detectors, one of said local panel means and central monitoring panel means diagnosing the abnormality on the basis of at least one of a predetermined frequency component and a predetermined frequency

band component of the frequency analysis result, and said central monitoring panel means providing at least one of an output and display indicative of abnormalities detected



(Compl. specn. 103 pages.

Drgns. 41 Sheets.)

Cl.: 93

173043

Int. Cl. : C 30 B 9/02; 29/12; 29/16. H 01 L 39/00 H 01 F 7/00

"METHOD FOR MANUFACTURING MATERIAL HAVING SUPERCONDUCTING PROPERTIES AT ROOM TEMPERATURE."

Applicant: DR. MIHIR SEN, PREVIOUSLY OF BURN STANDARD LTD., OF 10, HUNGERFORD STREEF, CALCUTTA-700 016, AND NOW OF 138A, HARISH MUKHERJEE ROAD, CALCUTTA-700 025, WEST BENGAE, INDIA.

Inventors · DR. MIHIR SEN.

Application No. 552/Cal/89 filed on 12th July, 1989.

Appropriaté Office for Opposition Proceedings (Rule 4, Patent rule 1972) Patent Office, Calcutta:

## 20 Claims

A process for the preparation of a super conducting material exhibiting super conducting properties at temperatures in the range of 150 to 300°K having electrical resistivity of

- 10-6 ohm meter, withstanding critical current density of 4v10<sup>10</sup>-Am-2, withstanding critical magnetic field of 15 Tessla and made from metal oxides of bismuth, barium and copper in molar quantities or metals of bismuth, barium and copper in the atomic ratio of 1:1.8:3.0, which comprises preparing a thorough blend of bismuth oxide, barium carbonate, copper hydroxide carbonate taken in quantities capable of yielding molar quantities of their respective exides at the end of the process. (i) grinding them into a paste with an organic solvent like ethanol or;
- (ila) making a solution with an organic solvent like ethanol acidic acid or propionic acid, preferably propionic;
- (iib) homogenizing the said paste or homogenizing the said solution with or without conventional homogenizing agents, as herein described;
  - (iii) evaporating the solvent and calcining the material;
- (iv) subjecting the calcined material of step (iii) to a step of thermal treatment in the temperature regions of 750° to 890°C in air;
- (v) grinding and moulding the thormally treated material;
- (vi) sintering the moulded material under oxygen in the presence of iner; gas, and finally;
- (vii) cooling the sintered material in a controlled manner.

(Compl. Speen 23 pages.

Drngs. 4 sheets)

Cl.: 32 F1

173044

Int. Cl 4: B 01 J 14/00. C 07 C 19/02.

PROCESS FOR SEPARATION OF HYDROGEN FLU-ORIDE FROM A MIXTURE.

Applicant: E.I. DU PONT DE NEMOURS AND COMPANY, OF WILMINGTON DELAWARE, UNITED STATES OF AMERICA.

Inventors: LEO ERNEST MANZER, VELLIYUR NOTT MALIKARJUNA RAO, RICHARD T. ROCKWELL, MICHAFL ANDREW SISK, FDWIN JAMES WARWAS.

Application No. 608/Cal/89 filed on 27th July 1989.

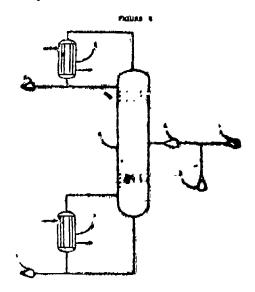
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

## 6 Claims

- A process for the separation of hydrogen fluoride (HF), 2, 2-dichloro-1, 1, -trilluoroethane (FC-123), and/or 2-chloro-1, 1, 1, 2-tetrafluoroethane (FC-124), from and initial mixture comprising HF, FC-123 and/or FC-124, the process comprising the steps of:
- (a) controlling the moiar ratio of hydrogen fluoride to 2, 2-dichloro-1, 1, 1-trifluoroethane in said initial mixture by adding 2, 2-dichloro-1, 1, 1-trifluoroethane when the molar ratio of hydrogen fluoride to 2, 2-dichloro-1, 1, 1-trifluoroethane from the initial mixture provided in a steps (a) and initial mixture with a molar ratio of hydrogen fluoride to 2, 2-dichloro-1, 1, 1-trifluoroethane of 1.3; 1, or less;
- (b) separating the initial mixture provided in step (a) by azeotropic distillation in a distillation column having a temperature of from about 50°C to 300°C and a pressure of from about 0.10 MPa to about 4.0MPa at the bottom of the column;
- (c) removing top products from the distillation column which contain a portion of the 2, 2-dichloro-1, 1, 1-trifinoroe-thane from the initial mixture provided in a steps (a) and substantially all of the h<sub>3</sub> drogen fluoride from the initial mixture provided in step (a) and which comprise at least one

low boiling azeotrope selected from the group consisting of azeotropes of hydrogen fluoride and 2, 2-dichloro-1, 1, 1-trifluoriethane, azeotropes of hydrogen fluoride and 2-chloro-1, 1, 2-tettafluoroethane, and azeotropes of hydrogen fluoride and both 2, 2-dichloro-1, 1, 1-trifluoroethane and 2-chloro-1, 1, 1, 2-tetrafluoroethane; and

(d) removing bottom products from the distillation column which are substantially free of hydrogen fluoride and which comprise 2, 2-dichloro-1, 1, 1-trifluoroethane; wherein sufficient 2, 2-dichloro-1, 1, 1-trifluoroethane is withdrawn from the bottom of the distillation column to maintain said temperature and pressure.



(Compl. Specn. 18 pages.

Drugs 1 sheets

(1. 155A+B+155 F2

173045

Int. Cl.: B 01 D 13/04. C 08 J 5/22.

WATER PERMEABLE MEMBRANE E.G. REVERSE OSMOSIS MEMBRANE SUITABLE FOR DESALINATION APPLICATIONS AND PROCESS FOR PREPARING THE SAME

Applicant: IHYDRANAUTICS CORPORATION, OF SUITE E. 11111 FLINTKOTE AVENUE, SAN DIEGO, CALIFORNIA 921221, UNITED STATES OF AMERICA.

favortoi: IOHN EDWARD TOMASCHKF.

Application No. 652/Cal/89 filed on 9th August 1989.

Appropriate Office for Opposition Proceedings (Rule 4. Patent Rule 1972), Patent Office, Calcutta.

## 31 Claims

A water permeable membrane, e.g. reverse osmosis membrane, suitable for desalination applications, comprising a micro-porous support, such as herein described, having provided thereon a coating of an ultra-thin membrane of interfacially polymerised product of (1) an essentially monomeric, aromatic polyamine such as herein described, having at least two amine functional groups, and (2) an essentially monomeric, aromatic, amine-reactive component, such as herein described, comprising a polyfunctional acyl halide or mixture thereof wherein the amine-reactive component has, on the average, at least about 2.2 acyl halide groups per molecule thereof, and (3) a monomeric amine salt, such as herein described.

(Cempl Speen, 22 pages

Dings. Nil)

Cl.: 32 F4

173046

Int. Cl.: C 07 C 143/06.

PURIFICATION OF ALKANESULFONIC ACIDS USING OZONE.

Applicant: ELF ATOCHEM NORTH AMERICA, INC., OF THREE PARKWAY, PHILADELPHIA, PENNSYLVANIA 19102, UNITED STATES OF AMERICA.

Inventor: MARTIN NOSOWITZ.

Application No. 762/Cal/89 filed on 18th September 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

#### 7 Claims

A process for purification by oxidizing oxidizable organic impurities, which include an alkyl alkanethiolsulfonate, from an alkanesulfonic acid of formula RSO H where R represents an alkyl group having 1 to 20 carbons contained in a straight or branched chain or in a cycloalkyl group having 3 to 6 carbon atoms in the ring and comprising contacting said alkanesulfonic acid with an ozone-containing gas for a contact time not exceeding 8 hours at a temperature of from about 20°C to 100°C, said ozone-containing gas having an ozone concentration in the range of from 0.001 to 10% by weight.

(Compl. Specn. 13 pages

Drngs. Nil)

Cl. · 40 B

173047

Int, Cl.4: C 08 F 4/54

"PROCESS FOR PRODUCING A CATALYST FOR THE POLYMERIZATION OF ALPHA-OLEFINS".

Applicant: HIMONT INCORPORATED, OF 2801 CENTERVILLE ROAD, NEW CASTI E COUNTY, DELAWARELI S.A.

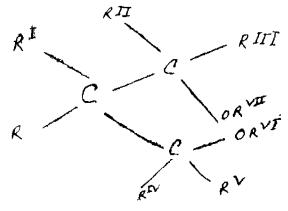
Inventors: PIER CAMILLO BARBE, LUCIANO NORISTI, RAIMONDO SCORDAMAGLIA, LUISA BARINO, ENRICO ALBIZZAT, UMBERTO GIANNINI. GIAMPIERO MORINI

Application No. 790/Cal/89 filed on 27th September, 1989

Appropriate Office for Opposition Proceedings (Rule 4) Patent Rule 1972) Patent Office, Calcutta.

## 6 claims

A process for producing a catalyst for the polymerisation of alpha-olefins, comprising reacting in a manner such as herein described: (a) an A1-alkyl compound; (b) a 1, 3 dicther having formula:



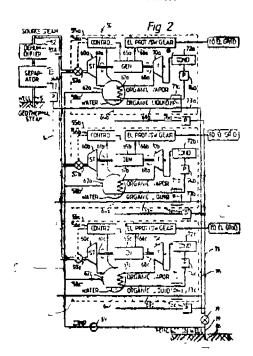
in which R. Ri, Rii, Riii, Riv and Rv are the same of different and are H. linear or branched alkyl radicals, or cycloalkyl aryl, alkylarylx or arylalkyl radicals with 1—18 carbon atoms, provided R and Ri are not both hydrogen; Rvi and Rvii

have the same meaning of R and R1 provided that neither RVI and RVII are methyl, R is not methyl; and (C) a solid catalyst component comprising anhydrous magnesium dihalide in active form and having supported thereon a titanium halide or haloalcoholate and an electron-donor compound which is extractable from the solid with Al-triethyl for more than 70 mol%, wherein the solid after extraction has a surface area of more than 20m<sup>2</sup>/g; the magnesium dihalide in active form being evidenced in the x-ray spectrum of the catalyst component in which the most intense reflection line appearing in the septrum of non-activated magnesium dihalide having a surface area of less than 3m2 g is absent and substituted by a halo with the maximum of intensity shifted with respect to the position of the most intense relection line or the most intense reflection line shows a half-peak breadth of at least 30% greater than the breadth of the most intense reflection line appearing in the spectrum of non-activated Mg dihalide and the electrondono, compound being selected from ethers: ketones; factones; electron-donor compounds with N.P. and/ or S atoms; esters of phthalic acid; esters of malonic acid; alkyl and arylpivalates; alkyl, cycloalkyl and arylmalaeates; alkyl and anyl carbonates; succinic acid esters; wherein the molar ratio between (a) and the titanium contained in (c) is between 1 and 1000 and the molar ratio between (a) and (b) is from 5 to 100.

(Compl. Specn. 29 pages:

Drngs. Nil)

(b) means for supplying in parallel said steam to each steam turbine in each of said modules.



(Compl. Speen, 19 pages

Drngs. 4 (licety)

Cl.: 190 B

173048

Int. Cl': F 01 K 23/16 H 02 K 7/18.

A POWER PLANT OPERATING ON STEAM FOR PRODUCING ELECTRIC POWER.

Applicant: ORMAT SYSTEMS, INC. OF 610 EAST GLENDALE AVENUE SPARKS. NV 89431, UNITED STATES OF AMERICA.

Inventor: NADAV AMIR. LUCIEN Y. BROMICKI.

Application No. 981/Cal/89 filed on 28th November

Appropriate Office for Opposition Proceedings (Rule 4. Patent Rule 1972), Patent Office, Calcutta.

### 9 Claims

A power plant operating on steam for producing electric power comprising:

(a) a plurality of integrated power plant unit modules each having a steam turbine responsive to said steam and producing heat depleted steam, a steam condenser associated with said steam turbine operating at a pressure no less than atmospheric pressure for collecting non-condensable gases and condensing said heat depleted steam and vaporizing organic fluid applied to said condenser, a closed organic rankine cycle turbine operating on said organic fluid and a single electric generator driven by said steam turbine and said organic radbine cycle turbine for producing electric power, and

Cl.: 20B

173049

Int. Cl.: B 43 K 24/00, 24/08, 24/16, 23/00.

MECHANICALLY CONTROLIED WRITING APPARATUS WITH PRE SHARPENED PENCIL LEAD ELF-MENTS.

Applicant: PENCELL COMPANY, LTD. OF 16-1, 1 ANE 24, KINMEN STREET, TAIPEI, TAIWAN R.O.C.

Inventor: CHUN-LIANG KUO.

Application No. 974/Cal/89 filed on 23rd November 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

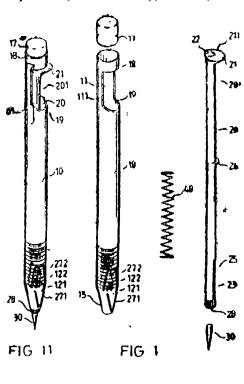
## 7 Claims

A mechanically controlled writing apparatus with presharpened pencil lead elements, comprising:

an inner cylinder being a hollow tube, comprising a semicircular projection at the middle, two elongated grooves oppositely piercing therethrough and vertically extended upward from the bottom end to provide the lower end of the inner cylinder with an elastic resilience so as to permit the bottom end be slightly expanded outward for passing therethrough of the pencil lead elements that are received in said inner cylinder a pencil lead filling inlet at the top, and a pencil lead outlet at the bottom; and

an outer pen-holder being a hollow tube, having a reduced bottom end, a lower V-shaped notch made on said reduced bottom end to define a suspended elastic hook means, said hook means being disposed to insert through either one or said two elongated grooves into the inner center of said inner cylinder may be inserted thereinside, an upper V-shaped notch invertedly made on the top of said reduced bottom end and disposed against said lower V-shaped notch;

arrangement being such that when said hook means is pushed aside, on said inner cylinder being pushed downward, to further insert through the top surface of the bottom piece of pencil lead element which is going to protrude beyond the pencil lead outlet, and the bottom piece of pencil lead element will be stopped by said hook means to partly protrude beyond said pencil lead outlet for writing when the inner cylinder is pushed upward to the upper limit position





(Compl. Specn 21 pages.

Dings 8 sheets)

C) . 35-E

Int C1: C 04 B 14, 32, 35,00, 35, 58, 36 76 35,16

A PROCESS FOR PREPARING SELF-SUPPORTING BODIES.

Applicant . LANAIDE TECHNOLOGY COMPANY, LP, OF TRALEE INDUSTRIAL PARK, NEWARK, DELAWARE 19714-6077, UNITED STATES OF AMERICA

#### Inventor:

- (1) TERRY DENNIS CLAAR.
- (2) STEVEN MICHARL MASON
- (3) KEVIN PETER POCHOPIEN
- (4) DANNY RAY WIITH.
- (5) WILLIAM BAYARD JOHNSON.

Application No. 990/Cal 89 filed on 1st December 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

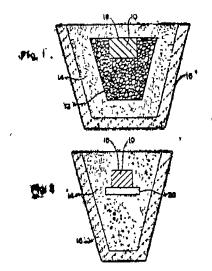
#### 5 Claims

A method for producing a self-supporting body, comprising: selecting a parent metal, as herein described heating said parent metal in a substantially inert atmosphere to a temperature above its melting point to form a body of molten parent metal;

contacting said body of molten parent metal with a permeable mass comprising boron carbide and at least one donor material selected from the group consisting of a boron donor material and a carbon donor material;

maintaining said temperature for a time sufficient to permit infiltration of molten parent metal into said permeable mass and to permit reaction of said molten parent metal with said boron carbide and said at least one donor material to form at least one boron-containing compound and to permit reaction of said molten parent metal with said at least one donor material; and

continuing said infiltration and reaction for a time sufficient to produce said self-supporting body comprising at least one parent metal boron-containing compound.



(Compl. Speen 33 pages.

Drugs, 5 sheet)

## PATENT SEALED

## ON 31-12-1993

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CAL-11, MAS-13, BOM-00, DEL-13

\*Patent shall be deemed to be endorsed with the words LICENCE OF RIGHT Under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of Sealing.

D-DRUG PATENT, F-FOOD PATENT.

## OPPOSITION PROCEEDINGS UNDER SECTION 25

The Opposition entered by the Sh. D. W. Bapat to grant of a patent of the application for Patent No. 160065 as notified in Gazette of India, Part III. Section 2 dated the 16th January 1988 has been dismissed and patent has been ordered to be sealed on application.

## RENEWAL FEES PAID

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## REGISTRATION OF DESIGN

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the entries is the date of registration in the entry.

- Class 1. No. 165174. Sea Bird Industries, Partnership Firm of 308/5, Shahzada Bagh, Old Rohtak Road, Delhi-110035, India. "Compressor used in refrigeration stand". January 7, 1993.
- Class 1. No. 165536. Millmore Engineering Pvt. Ltd. of 89 Old Mahabalipuram Road, Sholinganallur, Madras-600096, T.N., India. "Husking machine", Apr. 15, 1993.

- Class 1. No. 165594. Fancoldi R.T. (Regd. Trust) of 403.

  Poststrasse, Ruggel, Liechtenstein FL 9491, Liechtenstein. "Diamond". April 28, 1993.
- Class 1. No. 164746. Bhagyoday Iron Works of 4th Kum bharwada St. 26. First Pathan St., Bombay 400004, Maharashtra, India, Indian Partnership Firm. "Clamp for lock". September 3, 1992.
- Class 1. No. 165813 Earl Bihari Pvt. Ltd. of 148-F, St. Cyril Road, Bandra, Bombay-400050, Maharashtra, India. "Hinge". June 29, 1993.
- Class 1 166050. Rajendru Somani of Oriental Containers Ltd. 1076, Dr. F. Moses Road, Worli, Bembay, Maharashtra, India. "Chamfered metal cap" August 18, 1993.
- Class 4. No. 165477. Ont Prakash Tiwari, Arbec Engineer of 71, Rathanvilas Road, Basavanagudi, lore-560004, Karnataka India. "Tile". March 29, 1993.
- Class 4 No. 165988. Partecipazioni Bulgari S.p.A., Italian Co. of Via Gregoriana 5, 00187 Rome, Italy "Bottle", August 5, 1993.
- Class 4. No. 165647. Yves Saint Laurent International B.V., Dutch Co. of World Trade Centre, Strawinskylaan 1725, 1077. Amsterdam. Netherlands "Perfume bottle". May 17, 1993.
- Class 8. No. 166055. Wiliam Cherkezian & Son Inc. of 15F 30 Street N. Y. New York 10016, USA. "Car pet". August 20, 1993.
- Class 11. No. 166204. Ravissant, Indian Co. of 24, Nehro Place, New Delhi-110019, India. "Garmet", September 17, 1993.
- Class 12. No. 166008. Mohan Exports (India) Ltd., Indian Co. of Mohan House, Zamudpur Community Centre, New Delhi-110048 India "Fabric" August 10, 1993.

R. A. ACHARYA
Controller General of Patents Designs
& Trade Marks